



008089 USA/MTCG/PCTRL

PATENT/OFFICIAL

*ifw*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Rahul SURANA et al.

Serial No. 10/809,906

Filed: March 26, 2004

:  
:  
:  
:  
:  
: Group Art Unit: 3723  
:  
:  
: Examiner:

For: A TECHNIQUE FOR PROCESS-QUALIFYING A SEMICONDUCTOR  
MANUFACTURING TOOL USING METROLOGY DATA

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of any cited U.S. Patents and U.S. Patent Publications are not being submitted in accordance with 37 CFR 1.98(a)(2)(i).

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

In accordance with 37 C.F.R. § 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of

publication indicated for an item is taken from the face of the item, and Applicant reserves the right to prove that the date of publication is in fact different.

No fee is believed to be required; however, the Commissioner is authorized to charge any deficiency in any fees pursuant to 37 CFR § 1.17 associated with this communication and to credit any excess payment to Deposit Account No. 08-0219.

Respectfully submitted,

WILMER CUTLER PICKERING HALE AND DORR LLP




Scott M. Alter  
Registration No. 32,879

1455 Pennsylvania Avenue, NW  
Washington, DC 20004

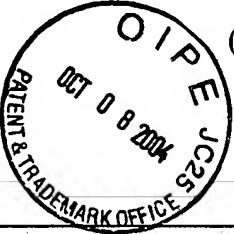
TEL 202.942.8428 SMA/lrm

FAX 202.942.8484

Date: 10/8/04

| <b>INFORMATION DISCLOSURE<br/>CITATION IN AN<br/>APPLICATION</b><br><br><br>(PTO-1449) |              |          |                  | ATTY. DOCKET NO.<br>008089 USA/<br>MTCG/PCTRL |          | SERIAL NO.<br>10/809,906 |  |
|---|--------------|----------|------------------|---|----------|--------------------------|--|
|   |              |          |                  | APPLICANT<br>Rahul SURANA et al.              |          |                          |  |
|   |              |          |                  | FILING DATE<br>March 26, 2004                 |          | GROUP<br>3723            |  |
| <b>U.S. PATENT DOCUMENTS</b>  |              |          |                  |   |          |                          |  |
| EXAMINER'S<br>INITIALS  | PATENT NO.   | DATE     | NAME             | CLASS   | SUBCLASS | FILING<br>DATE           |  |
|   | 5,975,994    | 11/02/99 | Sandhu et al.    |   |          | 06/11/97                 |  |
|   | 6,113,462    | 09/05/00 | Yang             |   |          | 12/18/97                 |  |
|   | 6,230,069 B1 | 05/08/01 | Campbell et al.  |   |          | 06/26/98                 |  |
|   | 6,268,270 B1 | 07/31/01 | Scheid et al.    |   |          | 10/29/99                 |  |
|   | 6,277,014 B1 | 08/21/01 | Chen et al.      |   |          | 10/09/98                 |  |
|   | 6,291,367 B1 | 09/18/01 | Kelkar           |   |          | 06/01/00                 |  |
|   | 6,465,263 B1 | 10/15/02 | Coss, Jr. et al. |   |          | 01/04/00                 |  |
|   | 6,532,555 B1 | 03/11/03 | Miller et al.    |   |          | 10/29/99                 |  |
|   | 6,535,783 B1 | 03/18/03 | Miller et al.    |   |          | 03/05/01                 |  |
|   | 6,541,401 B1 | 04/01/03 | Herner et al.    |   |          | 07/31/00                 |  |
|   | 6,546,508 B1 | 04/08/03 | Sonderman et al. |   |          | 10/29/99                 |  |
|   | 6,556,881 B1 | 04/29/03 | Miller           |   |          | 09/09/99                 |  |
|   | 6,652,355 B2 | 11/25/03 | Wiswesser et al. |   |          | 06/04/01                 |  |
|   | 6,725,402 B1 | 04/20/04 | Coss, Jr. et al. |   |          | 07/31/00                 |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
|   |              |          |                  |   |          |                          |  |
| EXAMINER  |              |          |                  | DATE CONSIDERED                               |          |                          |  |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

|  |  |                                  |
|--|--|----------------------------------|
| <p style="text-align: center;">INFORMATION DISCLOSURE<br/>CITATION IN AN<br/>APPLICATION</p> <p style="text-align: center;">(PTO-1449)</p>  | <p>ATTY. DOCKET NO.<br/>008089 USA/<br/>MTCG/PCTRL</p>   | <p>SERIAL NO.<br/>10/809,906</p> |
|  | <p>APPLICANT<br/>Rahul SURANA et al.</p>   |                                  |
|  | <p>FILING DATE<br/>March 26, 2004</p>  | <p>GROUP<br/>3723</p>            |
| <p style="text-align: center;"><b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b></p>   |  |                                  |
|  | <p>IslamRaja, M. M., C. Chang, J. P. McVittie, M. A. Cappelli, and K. C. Saraswat. May/June 1993. "Two Precursor Model for Low-Pressure Chemical Vapor Deposition of Silicon Dioxide from Tetraethylorthosilicate." <i>J. Vac. Sci. Technol. B</i>, Vol. 11, No. 3, pp. 720-726.</p>       |                                  |
|  | <p>Kim, Eui Jung and William N. Gill. July 1994. "Analytical Model for Chemical Vapor Deposition of SiO<sub>2</sub> Films Using Tetraethoxysilane and Ozone" (Abstract). <i>Journal of Crystal Growth</i>, Vol. 140, Issues 3-4, pp. 315-326.</p>  |                                  |
|  | <p>Guo, R.S, A. Chen, C.L. Tseng, I.K. Fong, A. Yang, C.L. Lee, C.H. Wu, S. Lin, S.J. Huang, Y.C. Lee, S.G. Chang, and M.Y. Lee. June 16-17, 1998. "A Real-Time Equipment Monitoring and Fault Detection System." <i>Semiconductor Manufacturing Technology Workshop</i>, pp. 111-121.</p> |                                  |
|  | <p>Lantz, Mikkel. 1999. "Equipment and APC Integration at AMD with Workstream." <i>IEEE</i>, pp. 325-327.</p>  |                                  |
|  | <p>July 15, 2004. Office Action for U.S. Serial No. 10/172,977, filed June 18, 2002.</p>   |                                  |
|  | <p>August 2, 2004. Office Action for U.S. Serial No. 10/174,377, filed June 18, 2002.</p>  |                                  |
|  | <p>August 9, 2004. Written Opinion for PCT Serial No. PCT/US02/19063.</p>  |                                  |
|  | <p>August 18, 2004. International Preliminary Examination Report for PCT Serial No. PCT/US02/19116.</p>  |                                  |
|  | <p>August 24, 2004. Office Action for U.S. Serial No. 10/135,405, filed May 1, 2002.</p>   |                                  |
|  | <p>August 25, 2004. Office Action for U.S. Serial No. 09/998,384, filed November 30, 2001.</p>   |                                  |
|  | <p>September 9, 2004. Written Opinion for PCT Serial No. PCT/US02/21942.</p>   |                                  |
|  | <p>September 16, 2004. International Preliminary Examination Report for PCT Serial No. PCT/US02/24859.</p>   |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
|  |  |                                  |
| EXAMINER   | DATE CONSIDERED  |                                  |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.